

### Amendment to the Claims

1. (Currently Amended) A syringe-type cell handling device including:

a vessel able to hold, in a liquid-tight state, a handling medium that is fluid and contains cells, the vessel being at least partially composed of a main body that combines with a plunger to form a syringe type device, the plunger being slidably insertable into the main body, the handling medium being transplanted into a living body by a pushing force being applied to the plunger, and being able to transfer the handling medium between an interior and an exterior of the vessel by the pushing force via a mouth being opened in the vessel to end the liquid-tight state, the mouth connecting the interior and the exterior, wherein

at least part of the main body and/or the plunger at least part of the vessel that contacts the handling medium when the vessel holds the handling medium is a gas permeable region for passing a quantity of gas necessary for survival of the cells.

2. (Original) The cell handling device of Claim 1, wherein

a whole of the vessel that contacts the handling medium when the vessel holds the handling medium is the gas permeable region.

3. (Currently Amended) The cell handling device of Claim 1, wherein in terms of an overall oxygen permeability quantity, a gas permeability of the gas permeable region is ~~one of~~ 1 mL/24 hr atm or more ~~and 10 mL/24 hr atm or more~~.

4. (Previously Presented) The cell handling device of Claim 1, wherein the gas permeable region is composed of one of a gas permeable resin and a porous film.

5. (Withdrawn) A tissue regeneration method in which the cell handling device of Claim 1 is used, the tissue regeneration method comprising:

a first step of holding, the handling medium in the vessel; and

a second step of transplanting the handling medium into a living body.

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) The cell handling device of ~~Claim 7~~ Claim 1, wherein the main body is composed of a flexible bag-type vessel that holds the handling medium and deforms as the plunger slides, and a cylindrical exterior part that holds the bag-type vessel, and at least part of the bag-type vessel is the gas permeable region.

9. (Original) The cell handling device of Claim 8, wherein the bag-type vessel is detachable from the cylindrical exterior part, and handling of the handling medium is possible when the bag-type vessel is in a detached state.

10. (Previously Presented) The cell handling device of Claim 8, wherein the bag-type vessel includes a discharge part for discharging the handling medium and a push part that causes a pushing force to act on the bag-type vessel.

11. (Original) The cell handling device of Claim 10, wherein except for the discharge part, a whole of the bag-type vessel is composed of a flexible material that is contractible under the pushing force.

12. (Original) The cell handling device of Claim 11, wherein the bag-type vessel includes a concertina section, and the concertina section is shortened via the push part effecting the pushing force.

13. (Original) The cell handling device of Claim 11, wherein the bag-type vessel is a tube.

14. (Original) The cell handling device of Claim 8, wherein a gas permeable region is provided in at least one other part besides the bag-type vessel so as gas exchange between a handling device exterior and the bag-type vessel is possible when the bag type vessel is being stored in the cylindrical exterior part.

15. (Original) The cell handling device of Claim 8, further including a rupturing means for

rupturing the bag-type vessel when the bag-type vessel is being stored in the cylindrical exterior part.

16. (Original) The cell handling device of Claim 8, wherein  
a discharge part that discharges the handling medium in a plunger forward-sliding direction  
is provided in the main body, and

the discharge part is formed such that a needle, an intravascular catheter or other conduit  
can be connected thereto.

17. (Currently Amended) A The cell handling device of Claim 6, wherein, including:  
a vessel able to hold, in a liquid-tight state, a handling medium that is fluid and contains  
cells; and

a volume varying means for varying a volume of the vessel,  
the vessel being able to transfer the handling medium between an interior and an exterior of  
the vessel via a mouth of the vessel which can be opened to end the liquid-tight state, the mouth  
connecting the interior and the exterior,

wherein at least part of the vessel that contacts the handling medium, when the vessel holds  
the handling medium, is a gas permeable region which has, in terms of an overall oxygen  
permeability quantity, a gas permeability of the gas permeable region is one of 1 mL/24 hr atm or  
more and 10 mL/24 hr atm or more for passing a quantity of gas necessary for survival of the cells,  
and

as the volume varying means varies the volume, the handling medium is discharged, or

flows into, the vessel.

18. (Previously Presented) A The cell handling device of Claim 6, wherein, including:  
a vessel able to hold, in a liquid-tight state, a handling medium that is fluid and contains  
cells; and

a volume varying means for varying a volume of the vessel,

the vessel being able to transfer the handling medium between an interior and an exterior of  
the vessel via a mouth of the vessel, which can be opened to end the liquid-tight state, the mouth  
connecting the interior and the exterior,

wherein at least part of the vessel that contacts the handling medium, when the vessel holds  
the handling medium, is a the gas permeable region is composed of one of a gas permeable resin and  
a porous film for passing a quantity of gas necessary for survival of the cells, and as the volume  
varying means varies the volume, the handling medium is discharged, or flows into, the vessel.

19. (Currently Amended - Withdrawn) A tissue regeneration method in which the cell  
handling device of ~~Claim 6~~ Claim 17 is used, the tissue regeneration method comprising:

a first step of holding the handling medium, in the vessel; and

a second step of transplanting the handling medium into a living body.

20. (Currently Amended) The cell handling device of ~~Claim 7~~ Claim 1, wherein  
portions of the gas permeable region are provided at a plurality of separate locations in the

main body and each portion extends in a sliding direction of the plunger.

21. (Original) The cell handling device of Claim 20, wherein  
each portion of the gas permeable region is composed of a material whose gas permeability  
is higher than a gas permeability of a principal material of the main body.

22. (Currently Amended) The cell handling device of ~~Claim 7~~ Claim 1, wherein  
a portion of gas permeable region is located in the main body in a sliding direction of the  
plunger.

23. (Original) The cell handling device of Claim 22, wherein a portion of the gas permeable  
region is formed at a tip of the plunger.

24. (Cancelled)

25. (Currently Amended) The cell handling device of ~~Claim 24~~ Claim 22, wherein:  
~~the~~ a discharge part is formed at ~~or in proximity to a surface of the vessel~~ that makes contact  
with the plunger when the plunger is in a fully pressed state, and  
a portion of the permeable region is formed in the surface.

26. (Currently Amended) The cell handling device of ~~Claim 24~~ Claim 22, wherein

a portion of the gas permeable region is provided in a closing member that covers the discharge part.

27. (Currently Amended) The cell handling device of Claim 20, wherein in terms of an overall oxygen permeability quantity, a gas permeability of the gas permeable region is ~~one of 1 mL/24 hr atm or more and 10 mL/24 hr atm or more.~~

28. (Previously Presented) The cell handling device of Claim 20, wherein the gas permeable region is composed of one of a gas permeable resin and a porous film.

29-44. (Cancelled)

45. (New) The cell handling device of Claim 3, wherein the gas permeable region is composed of one of a gas permeable resin and a porous film.